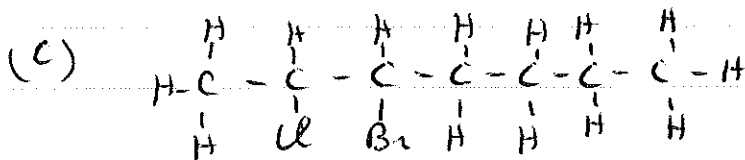
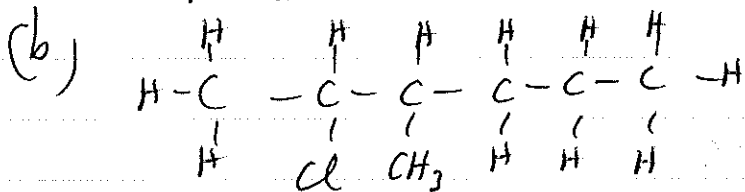
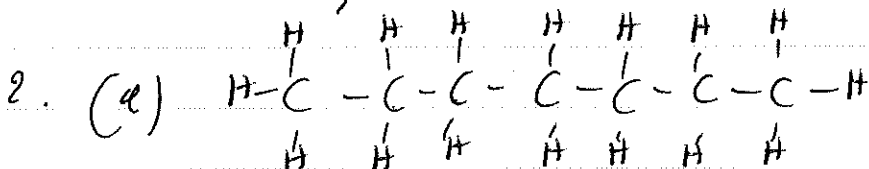
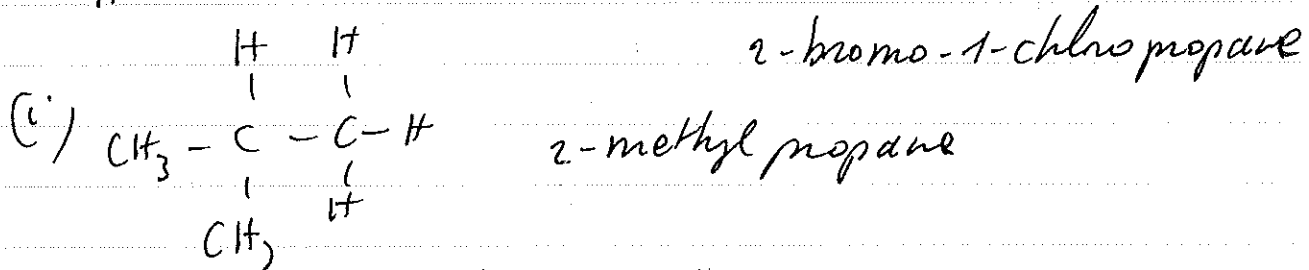
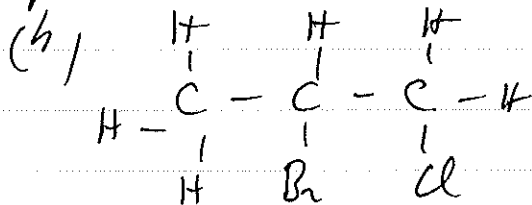
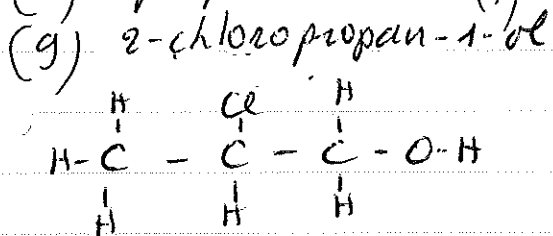
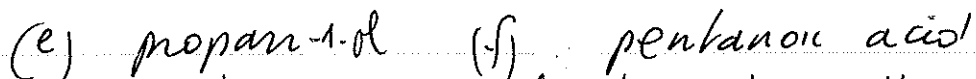
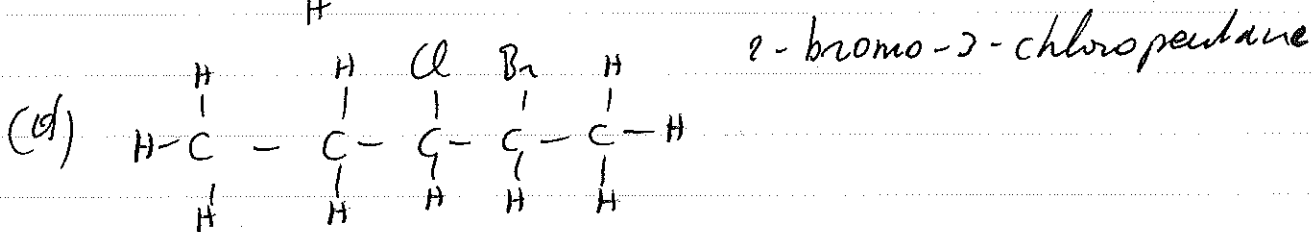
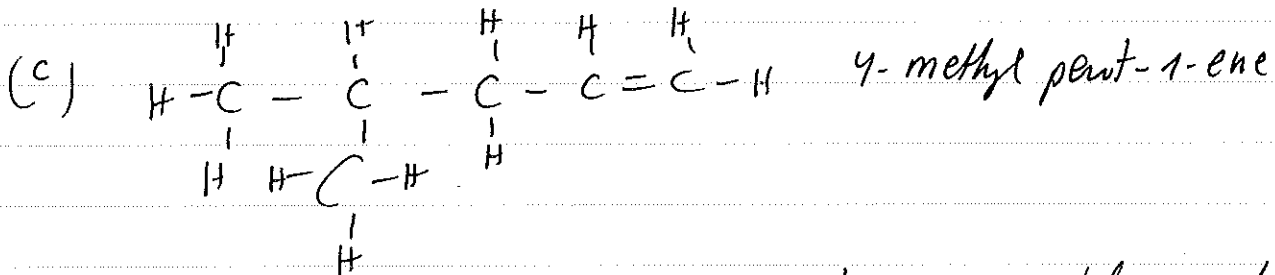
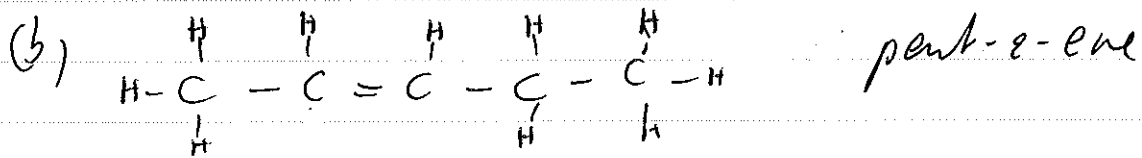
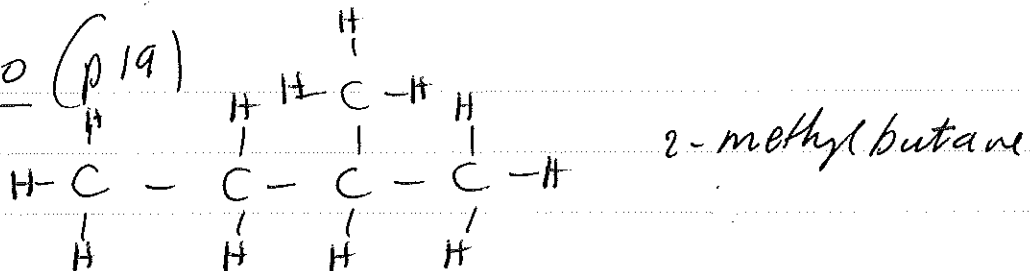
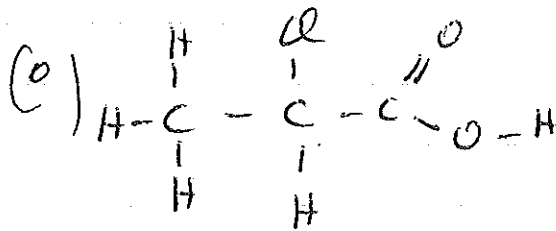
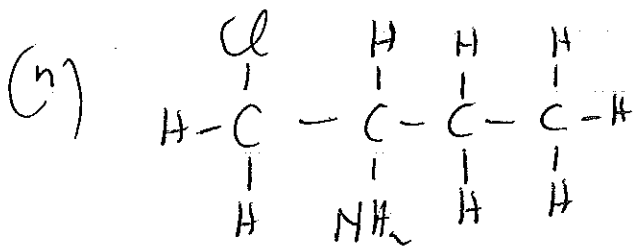
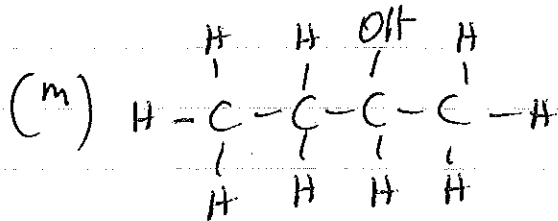
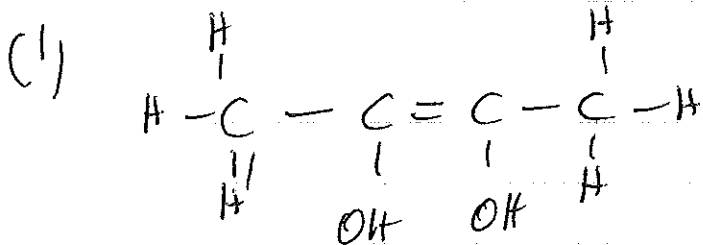
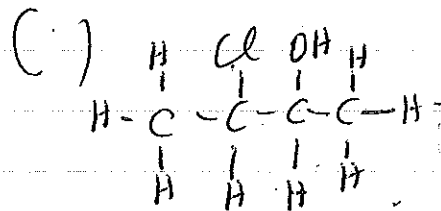
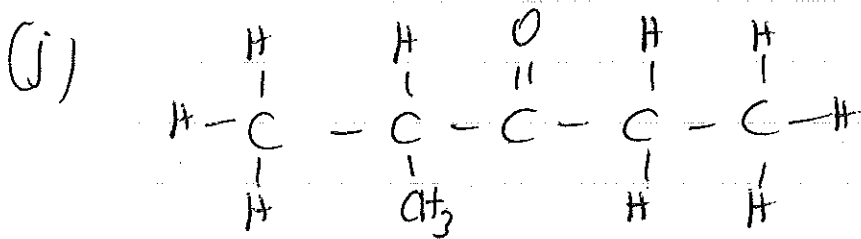
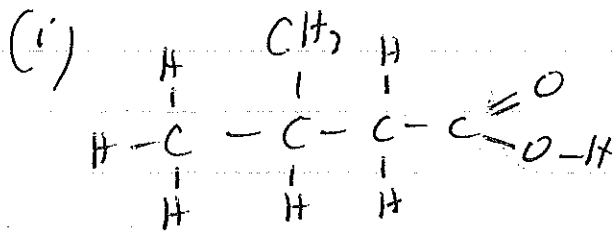
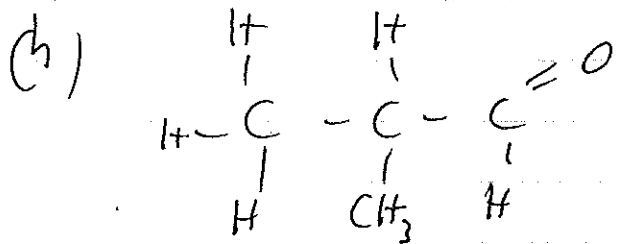
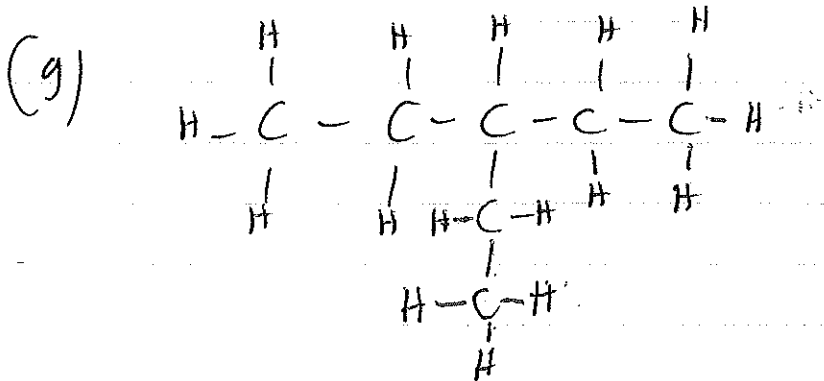
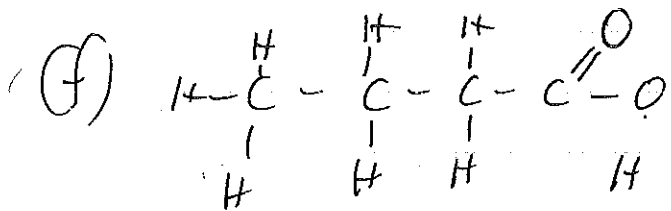
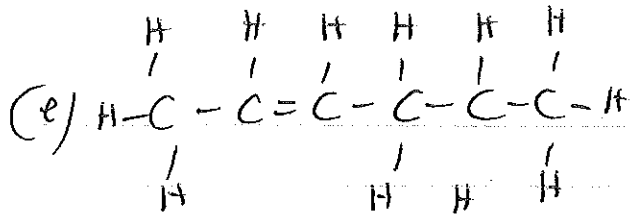
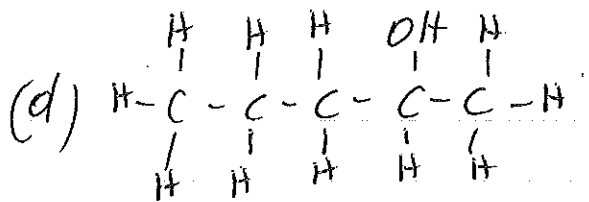


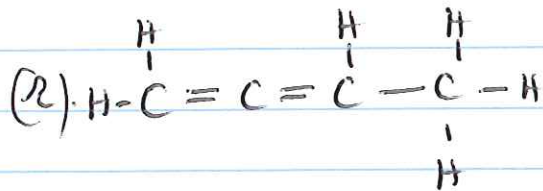
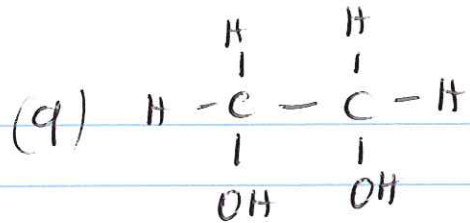
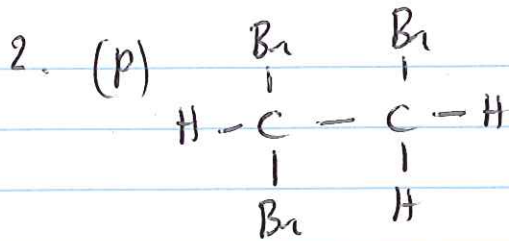
Answers to questions page 19

Topic 10 (p19)

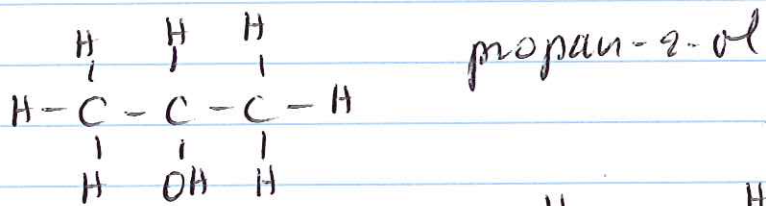
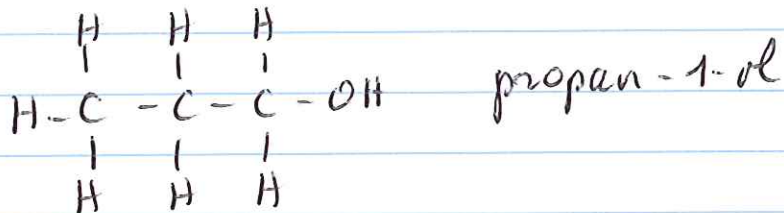




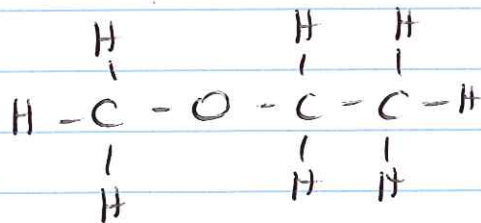
Topic 10 (p 1a)



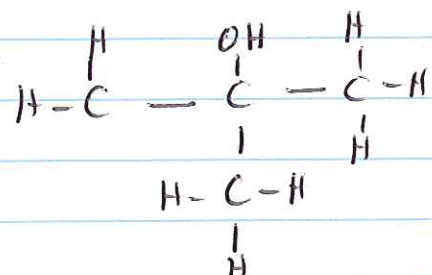
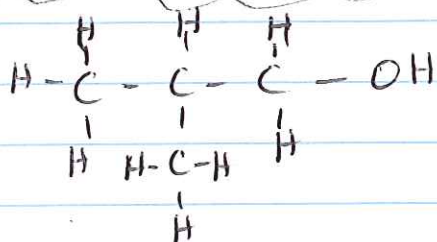
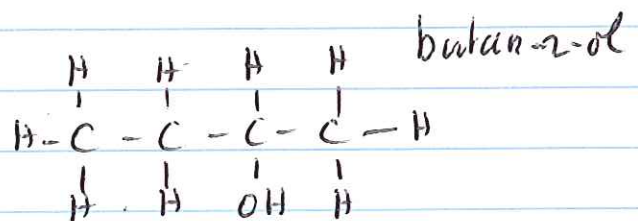
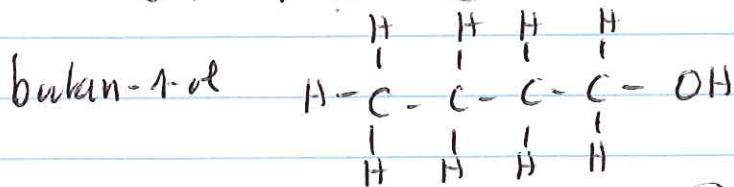
3 (a) $\text{C}_3\text{H}_8\text{O}$ (3 isomers)



methoxyethane
(ether!)



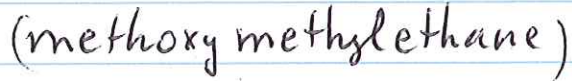
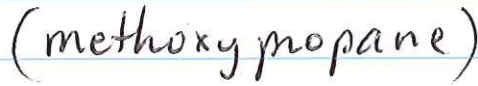
(b) $\text{C}_4\text{H}_{10}\text{O}$ (7 isomers)



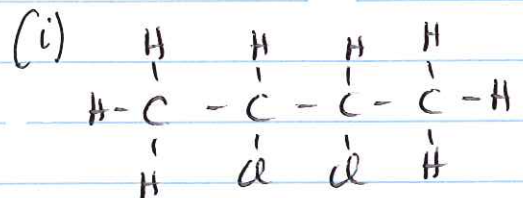
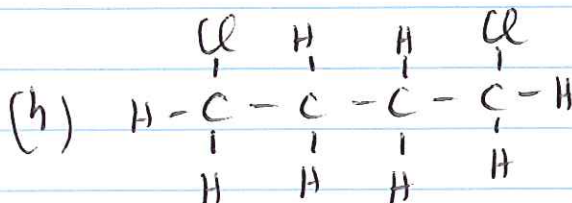
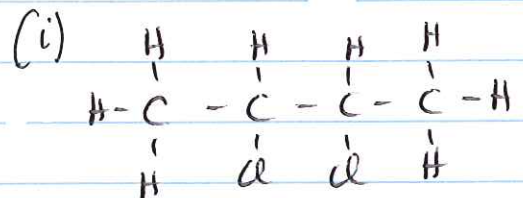
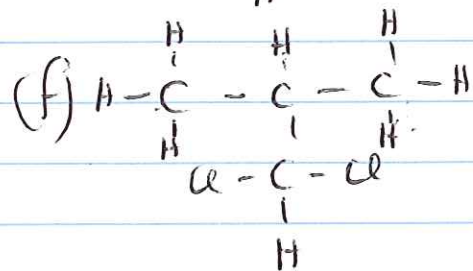
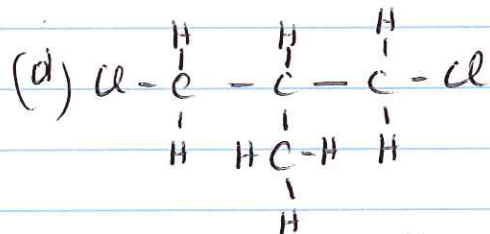
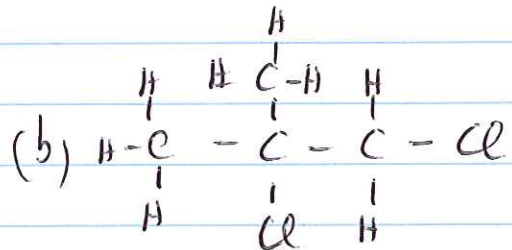
2-methylpropan-1-ol

2-methylpropan-2-ol

(ethoxyethane)

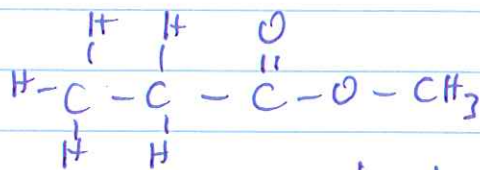


4) $C_4H_8Cl_2$ (q isomer)

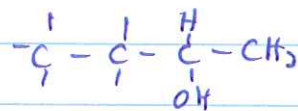


Topic 10 (p19)

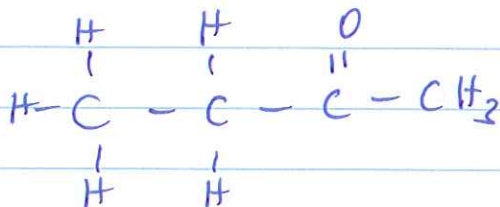
5. (a) ester = g



(b) secondary alcohol = d



(c) ketone = e



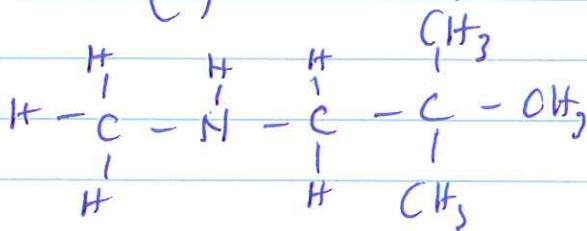
(d) alkene = f

6. (a) tertiary

(b) primary

7. (a) "

(b) secondary



N-methyl-1-amino-2,2-dimethylpropan

8. a. butanoic acid

b. butan-2-one

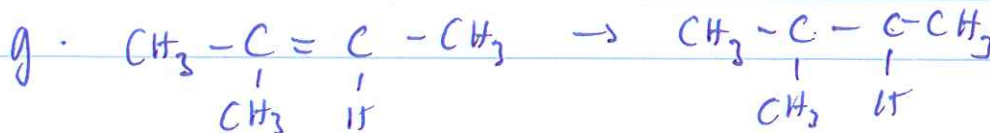
c. 1-bromobutane + hydrogen bromide

d. 1-bromobutane or 2-bromobutane

e. 1,2-dibromopropane

f. no reaction

OH H 2-methylbutan-2-ol



h. ethanoic acid